

**Notice of Allowability**

Application No.

10/748,228

Applicant(s)

YOUM, JANG-HYOUN

Examiner

Art Unit

Elias B. Hiruy

2837

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/22/05.
2. ☒ The allowed claim(s) is/are 1-12, 14-25 and 27-35.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

**DETAILED ACTION**

**Allowable Subject Matter**

1. Claims 1-12, 14-25, and 27-35 are allowed.
2. The following is an examiner's statement of reasons for allowance:

The prior arts teach systems that have similar functions as disclosed. For instance:

- Yasukazu Tamura, et al (JP 60-164512) teaches about Emergency Dynamic Braking System of Servomotor that discloses similar apparatus and method that is similar to the disclosure herein.
- Oshima et al (US 5,241,255) discloses a method of failure detecting means for regenerative power absorbing apparatus that shows a dynamic braking resistor and a control switch connected to the positive and negative DC bus that are coupled to an inverter to drive a motor.
- Youm et al (US 2004/0160792) shows a motor power supply that has a dynamic braking resistor along with other circuit components configured to be used in the process of regenerative braking method.

However, none of the prior arts alone or in combination showed or taught the specific apparatus limitation that is found in the independent claim 1, 11, 12, and

14. The specific reason for allowance is:

*"an over voltage protection resistor having a side connected between the braking resistor and the control switching element, and remaining side connected to the one connection terminal to be place in series with the control switching element"*

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the above-cited limitations in combination with the rest of the claim limitations are the reasons for allowance of the independent claims 1, 11, 12, and 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Response to Amendment**

3. Applicants' after final amendment filed on 11/23/05 is received and entered into record with the RCE received on 12/22/05.
4. The rejection of the independent claims 1, 11, 12, and 14 under 35 U.S.C. § 102 (b) are withdrawn as applicant has amended the independent claims. Therefore, claim rejection of claims 2-10, 15-25, and 27-35 is withdrawn as the claims depend directly or indirectly for the allowable independent claims.

**Remarks**

5. Thirty-three claims are allowed.
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**Correspondence**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias B. Hiruy whose telephone number is 571-272-6105. The examiner can normally be reached on 7:00AM - 4:30PM.


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Elias Hiruy

02/13/06



**RINA DUDA**  
**PRIMARY EXAMINER**